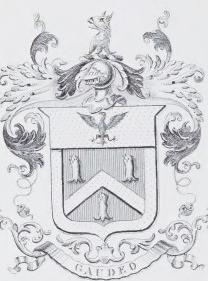


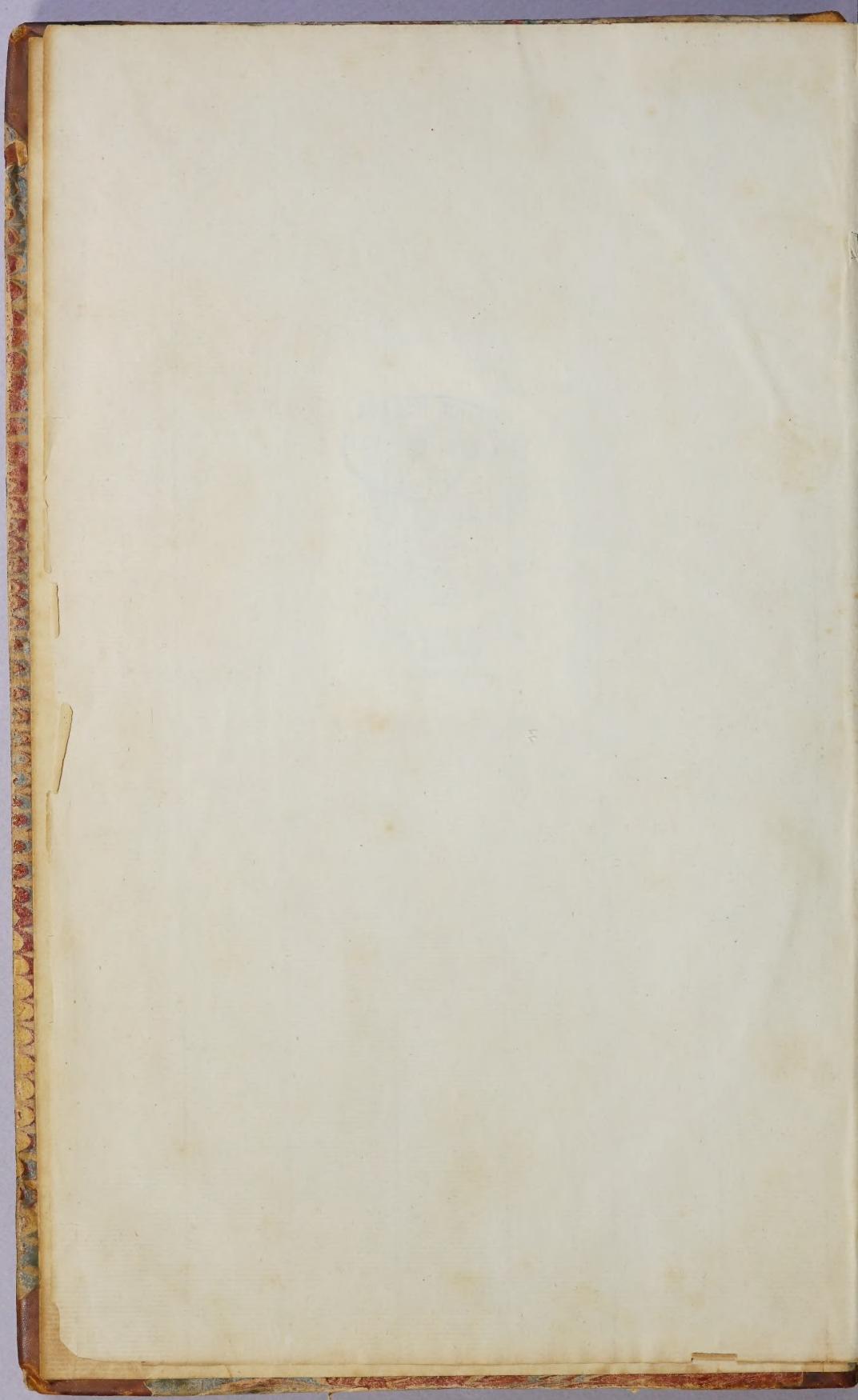


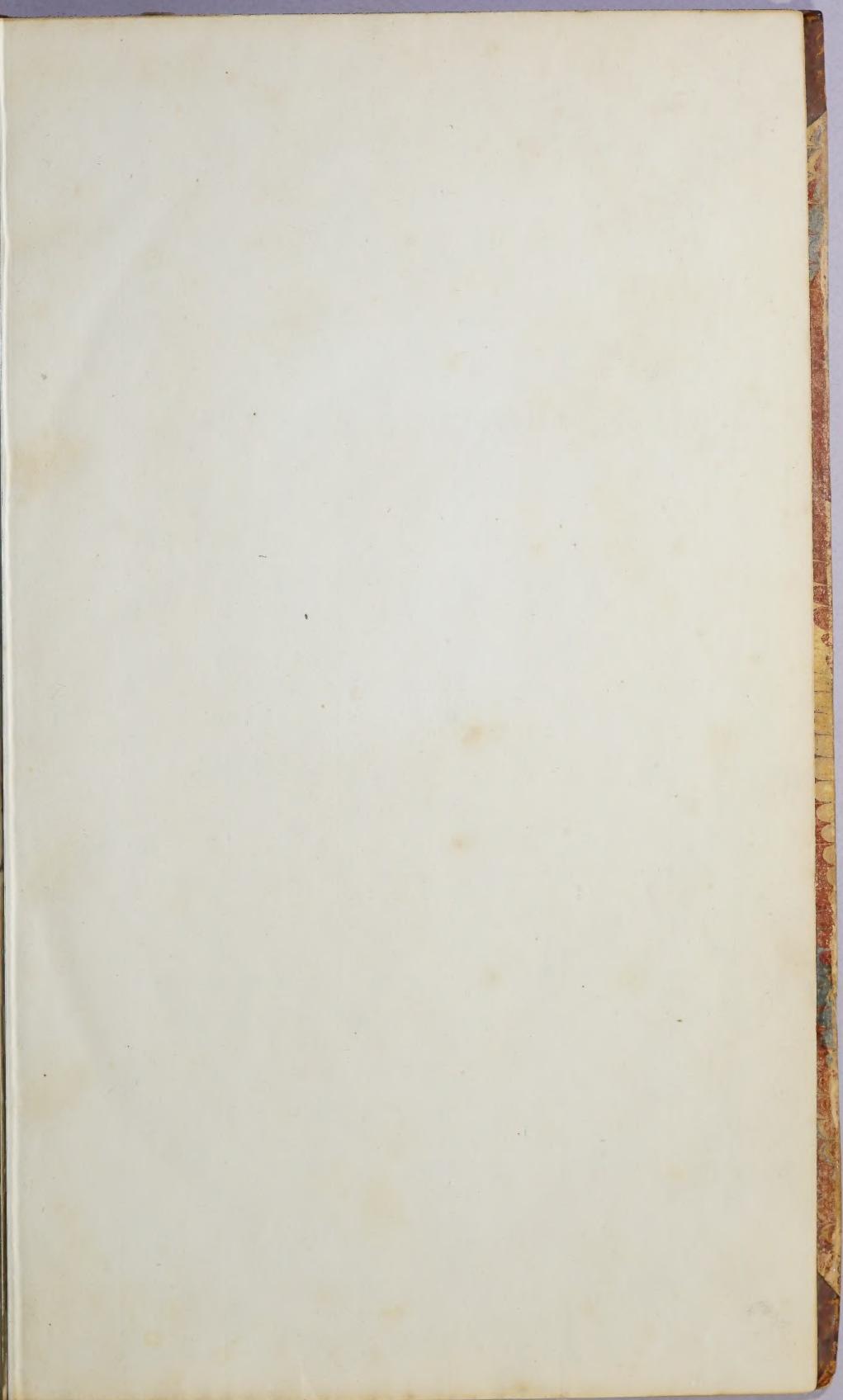
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*Gen Knox Report on Fortifying the United States*

*Feb. 28<sup>th</sup> 1794*

*H. 12*

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27905*

*G. 2*

*The COMMITTEE, directed to report on such of the Ports and  
Harbors of the United States, as require to be put in a State of Defence, with  
an Estimate of the Expense thereof,*

**R E P O R T** as their opinion :

**T**HAT the following ports and harbors ought to be put in a state of defence, to wit:—

Portland, in Maine,  
Portsmouth, in New-Hampshire,  
Cape-Anne, }  
Salem, } Massachusetts,  
Marblehead, }  
Boston,  
Newport, Rhode-Island,  
New-London,  
New-York,  
Philadelphia,  
Baltimore,  
Norfolk,  
Wilmington, North-Carolina,  
Ocracoke Inlet,  
Charleston, South-Carolina,  
Savannah, Georgia.

That, in their opinion, the fortifications ought to be of a nature, to defend the several ports and harbors, against surprize by naval armaments; and that the parapets of the batteries and redoubts should be formed of earth, where circumstances will admit.

That the several places to be fortified, be garrisoned by troops in the pay of the United States.

The estimates submitted herewith, will shew the expense, as well of erecting the fortifications, as for providing the cannon and military stores, and the annual expense of supporting the troops. The number of troops to be employed in each port, is likewise specified.

From these estimates it appears, that the sums necessary to erect the fortifications, amount to      *Dols. Cts.*      *76,053. 52*

That it will be necessary to provide two hundred cannon, which, together with their carriages, &c. amount to      *96,645*

Making together      *172,698. 52*

And that the annual expenses of the troops, necessary to garrison the several fortifications, including pay, subsistence, &c. amount to      *90,349. 25*

It may be proper for the committee to remark, that, in their opinion, it will be necessary, for the security of the United States, to provide the number of cannon above specified, even if the fortifications before mentioned, should not be erected.

[ 2 ]

*An ESTIMATE of the Probable Expense of Fortifying  
the following Harbours in the manner specified.*

P O R T L A N D, (Maine.)

	Dols. Cts.	Dols. Cts.
Twelve heavy cannon.	375	
The formation of a parapet of earth for twelve pieces	179. 76	
The facing twelve embrasures, at $14\frac{9}{100}$ dollars each	309	
The expence of 12 platforms at $25\frac{7}{100}$		
A redoubt constructed of a form to be adapted to the nature of the ground to be equal to an hundred feet square	650	
A magazine	200	
Embrasures and platforms for four field pieces	160. 52	
A block house or barracks for fifty men	500	
For pickets, palisadoes, and to provide for articles difficult to foresee or enumerate	375	
		2,749. 28

P O R T S M O U T H, (New-Hampshire.)

*Fifteen pieces.*

A parapet for 15 pieces	468. 75
Embrasures and platforms for 15 pieces at $40\frac{73}{100}$ dollars	609. 95
A redoubt	650
Embrasures and platforms	160. 52
A magazine	200
Block-house or barracks	500
Pickets, pallisadoes, and contingencies	375
	2,964. 22

C A P E - A N N,

*Eight pieces.*

Expense of the construction of the parapet, embrasures, and platforms	573. 84
A block-house	500
A magazine	200
Contingencies	150
	1,423. 84

S A L E M,

*Eight pieces.*

The expence the same	1,423. 84
M A R B L E H E A D,	

*Eight pieces.*

The expence the same	1,423. 84
B O S T O N, C A S T L E - I S L A N D,	

*Thirty-six pieces.*

To put the works in order estimated at	6,000
G O V E R N O R ' S I S L A N D,	

*Twelve pieces.*

The same as at Portland	2,749. 28
	13,020. 80

N E W P O R T,

Four pieces on travelling carriages, so that no battery may be necessary to be erected.

*Carried forward*

18,734. 30

[ 3 ]

	Dols. Cts.	Dols. Cts.
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<i>Brought forward</i>	-	18,734. 30
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**G O A T - I S L A N D ,***Twenty pieces.*

To put the works in order	-	3,000
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**N E W - L O N D O N ,***Twelve pieces.*

The same as at Portland	-	2,749. 28
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**G R O T O N ,***Twelve pieces.*

The same as at Portland	-	2,749. 28
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5,498. 56
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**N E W - Y O R K , G O V E R N O R ' S I S L A N D ,***Twenty-four pieces.*

The expense of constructing batteries, embrasures and platforms for 24 pieces	1,727. 52
A redoubt with embrasures	810
Magazine	200
Block-house or barracks	500
Contingencies	500
	3,737. 52

**P A U L U S - H O O K ,***Sixteen pieces.*

Parapets, embrasures, and platforms for batteries of 16 pieces	1,151. 68
Redoubt	650
Four embrasures, and platforms for ditto	160
A magazine	200
A block-house	500
Non-enumerated articles and contingencies	500
	3,161. 68

**N E W - Y O R K ,**

Batteries for several parts of the city for 42 pieces	1,312. 50
---	-----------

The expense of the materials and executing platforms and embrasures for 42 pieces at $40\frac{7}{8}\frac{3}{5}$	1,710. 66
Three magazines	600

Two block-houses or other buildings equal thereto	1,000
Contingencies	1,000
	5,623. 16
	12,522. 36

Twenty of these pieces may be on travelling carriages, so as to be moved as circumstances might require.

**T H E D E L A W A R E , M U D - I S L A N D ,***Forty-eight Pieces.*

In order to complete the present works for 48 pieces, and a garrison of fifty men	8,737. 94
<i>Carried forward</i>	48,493. 16

[ 4 ]

	Dols.	Cts.	Dols.	Cts.
Brought forward			48,493	.16
<b>B A L T I M O R E,</b>				
<i>Twenty-eight Pieces.</i>				
Parapets, embrasures, and platforms for batteries, for 28 pieces			2,015	.44
A redoubt with four embrasures			810	
Two magazines			400	
Block-houfe or barracks			500	
Contingencies			500	
				4,225. 44
<b>N O R F O L K,</b>				
<i>Twenty-four Pieces.</i>				
Batteries, embrasures, and platforms			1,727	.58
Redoubt with embrasures			810	
A magazine			200	
Block-houfe or barracks			500	
Contingencies			500	
				3,737. 58
<b>W I L M I N G T O N,</b>				
<i>Twelve Pieces.</i>				
Batteries, embrasures, and platforms, for 12 pieces			863	.76
Redoubt with embrasures			810	
Magazine			200	
Block-houfe or barracks			500	
Contingencies			500	
				2,873. 76
<b>O C R A C O K E,</b>				
<i>Eight Pieces.</i>				
Batteries for 8 pieces, embrasures, &c.			573	.84
Magazine			200	
Block-houfe or barracks			500	
Contingencies			500	
				1,773. 84
<b>C H A R L E S T O N,</b>				
To be fortified with 72 pieces, which may be divided into three sets of batteries and redoubts				4,647. 60
<b>S A V A N N A H,</b>				
The same works and expense as for Norfolk				3,737. 52
Total amount dollars				<u>76,053. 62</u>

The number of Cannon required for the before mentioned Places, to wit:

Portland	-	-	12
Portsmouth	-	-	15
Cape-Ann	-	-	8
Salem	-	-	8
Marblehead	-	-	8
Boston,			
Castle-Island	-	-	36
Governor's-Island	-	-	12
			48
Newport	-	-	24
New-London and Groton	-	-	24
New-York and its dependencies	-	-	82
The Delaware	-	-	48
Baltimore	-	-	28
Norfolk	-	-	24
Wilmington, North-Carolina	-	-	12
Ocracoke	-	-	8
Charleston	-	-	72
Savannah	-	-	24
			445

The number which might be furnished from the public arsenals	-	150
Supposed may be furnished by the respective states, and which would require to be new mounted	-	150
Deficient	-	145
		445

But as the precise number of those which are supposed may be furnished by the respective states, are uncertain, it would seem most prudent to have cast 200 heavy pieces, of the calibre 24 and 36 pounders.

An estimate of the expence of one hundred twenty-four pound cannon, each weighing two tons, 200 tons at 80 dollars	-	Dols. Cts.
100 of the calibre of cannon of 36 pounders, at 3 tons, 300 tons, at 80 dollars	-	16,000
200 garrison carriages and implements for the said cannon, at 60 dollars	-	24,000
150 carriages and implements for the cannon supposed to be furnished by the respective states, at 50 dollars	-	12,000
The expense of mounting the 150 cannon proposed to be furnished from the public arsenals, are already included in the general estimate of the war department for the year 1794.	-	7,500
200 tons of twenty-four pound ball, at 40 dollars	-	8,000
300 tons of thirty-six pound ball, at 40 dollars	-	14,400
The expence of powder, is not estimated, as a considerable quantity is in possession of the public, as will appear by the returns.		

Carried forward - 81,900  
B

	Dols. Cts.
Brought forward - - -	81,900
For paper for cartridges, flow-match, port-fires, drag-ropes, carriages to move the cannon from place to place, and all contingencies relatively to the artillery	6,000
For transportation of the cannon and shot from the public arsenals, and also from the furnaces where they may be cast, to the several fortifications stated in the foregoing estimate	6,000
Four engineers, to be employed six months to construct and direct the works, with the pay, subsistence, and forage, of lieutenant-colonels commandant	2,745
	<u>96,645</u>

## SUMMARY of the Foregoing ESTIMATES.

Fortifying the several enumerated harbours	76,953. 62
Expense of 200 battering cannon, to be purchased, with carriages and implements, ball, transportation of cannon and ball, pay, &c. of engineers, and all other contingencies relative to the artillery	96,645
Total amount, dollars	<u>172,698. 62</u>

*An Estimate of the Number of Troops required as the Ordinary protection of the aforesaid fortifications.*

	Capt.	Sub.	Serj.	Corp.	Mus.	Priv.
Portland	-	-	-	1	1	2
Portsmouth	-	-	-	1	1	2
Cape-Ann	-	-	-	1	1	2
Salem,	-	-	-	1	1	2
Marblehead	-	-	-	1	1	2
Boston, Governor's Island	-	-	-	1	1	2
Castle	-	-	-	1	1	2
Newport	-	-	-	1	2	2
New-London	-	-	-	1	1	1
Groton	-	-	-	1	1	1
New-York	-	-	-	1	2	6
Delaware	-	-	-	1	2	6
Baltimore	-	-	-	1	2	2
Norfolk	-	-	-	1	2	2
Wilmington	-	-	-	1	1	1
Ocracoke	-	-	-	1	1	2
South-Carolina	-	-	-	1	2	6
Savannah	-	-	-	1	2	2
To act as inspectors to be constantly employed in visiting the posts.	Majors		2	-	-	-
	2	5	21	39	45	36
						550

If the several works should be garrisoned in ordinary by a part of the legion of the United States, now in service, the expence is already calculated in the general estimate of the war department for the year 1794. But in order to have references thereto, the expense of the number of troops proposed, is here specified.

It will not escape notice, that the proposed troops are not artillery, but infantry. It is however supposed, that some of the artillery officers in service, might be used on the present occasion, and that part of the infantry officers might be chosen for the purpose, who would soon acquire a tolerable degree of knowledge in the use of cannon.

*Estimate of the expenses of the number of troops to be posted in the aforementioned works, as their ordinary protection—for twelve months.*

P A Y.	Dols.	Dols. Cts.
2 Majors, to act as Inspectors, &c. at 50 per month,	1,200	
5 Captains - - - - 40 - - -	2,400	
11 Lieutenants - - - - 26 - - -	3,432	
10 Ensigns - - - - 20 - - -	2,400	
39 Serjeants - - - - 6 - - -	2,808	
45 Corporals - - - - 5 - - -	2,700	
36 Music - - - - 4 - - -	1,728	
550 Privates - - - - 3 - - -	19,800	
		36,468

#### S U B S I S T E N C E.

2 Majors - - - - 4 rations per day	2,920	
5 Captains - - - - 3 - - -	5,475	
11 Lieutenants - - - - 2 - - -	8,030	
10 Ensigns - - - - 2 - - -	7,300	
670 Non-commissioned and privates - - - - 1 - - -	244,550	
	268,275	

268,275 Rations at 15 cents per ration	- - - -	40,241. 25
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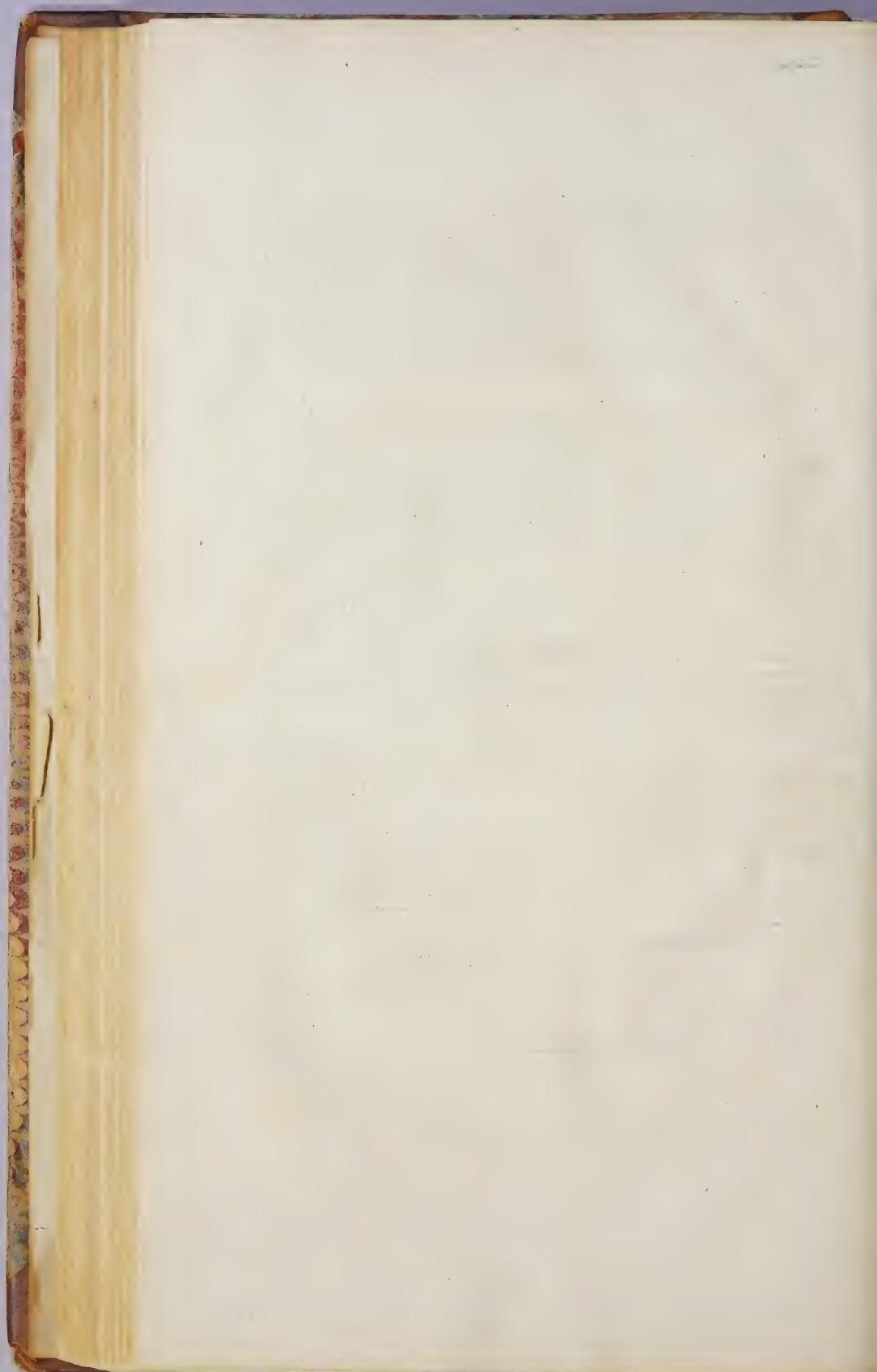
#### F O R A G E.

2 Majors, at 10 dollars per month	- - - -	240
670 Suits, at 20 dollars per suit	- - - -	13,400

Dollars 90,349. 25

WAR DEPARTMENT,  
February 28, 1794.

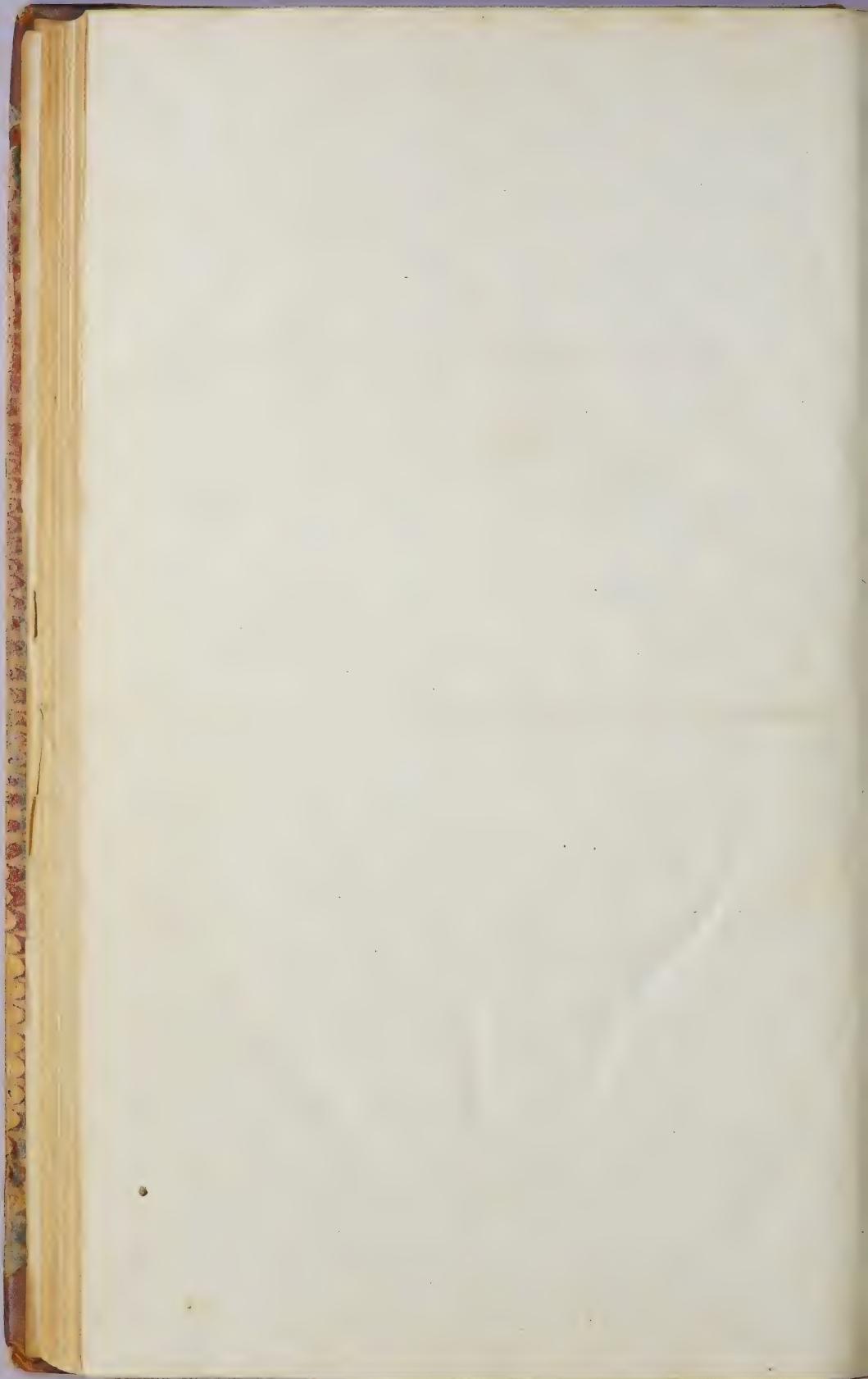
H. K N O X,  
*Secretary of War.*

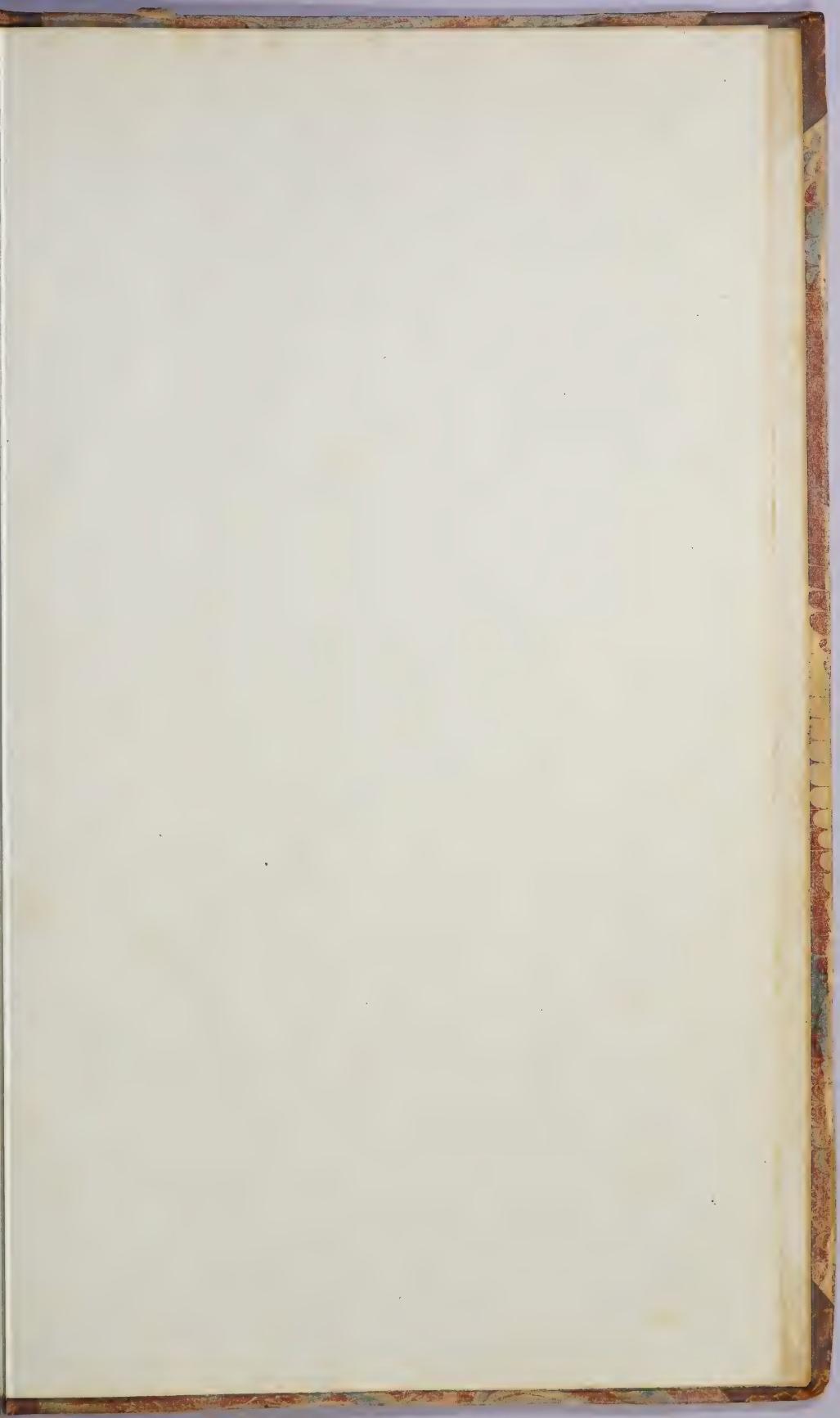


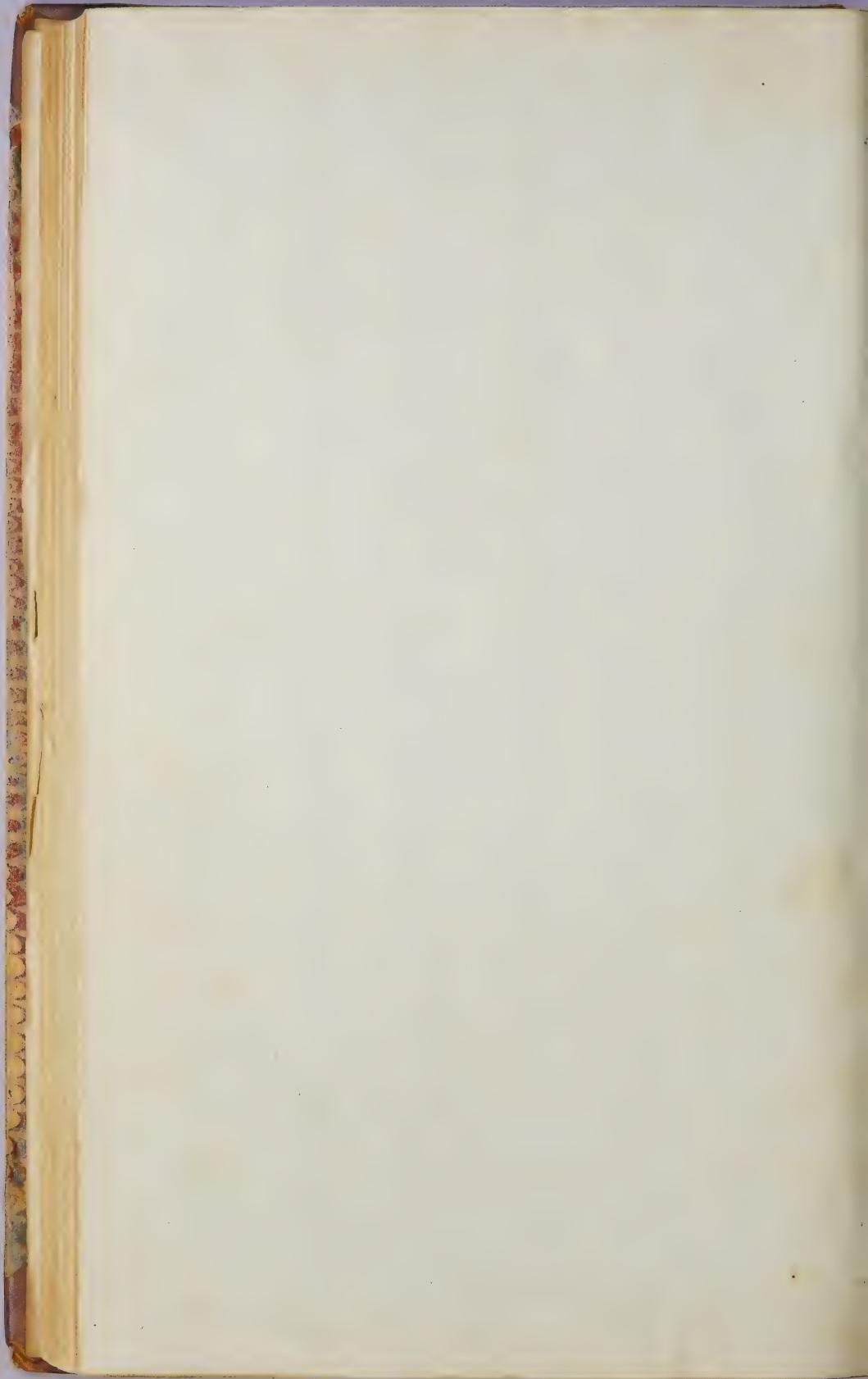
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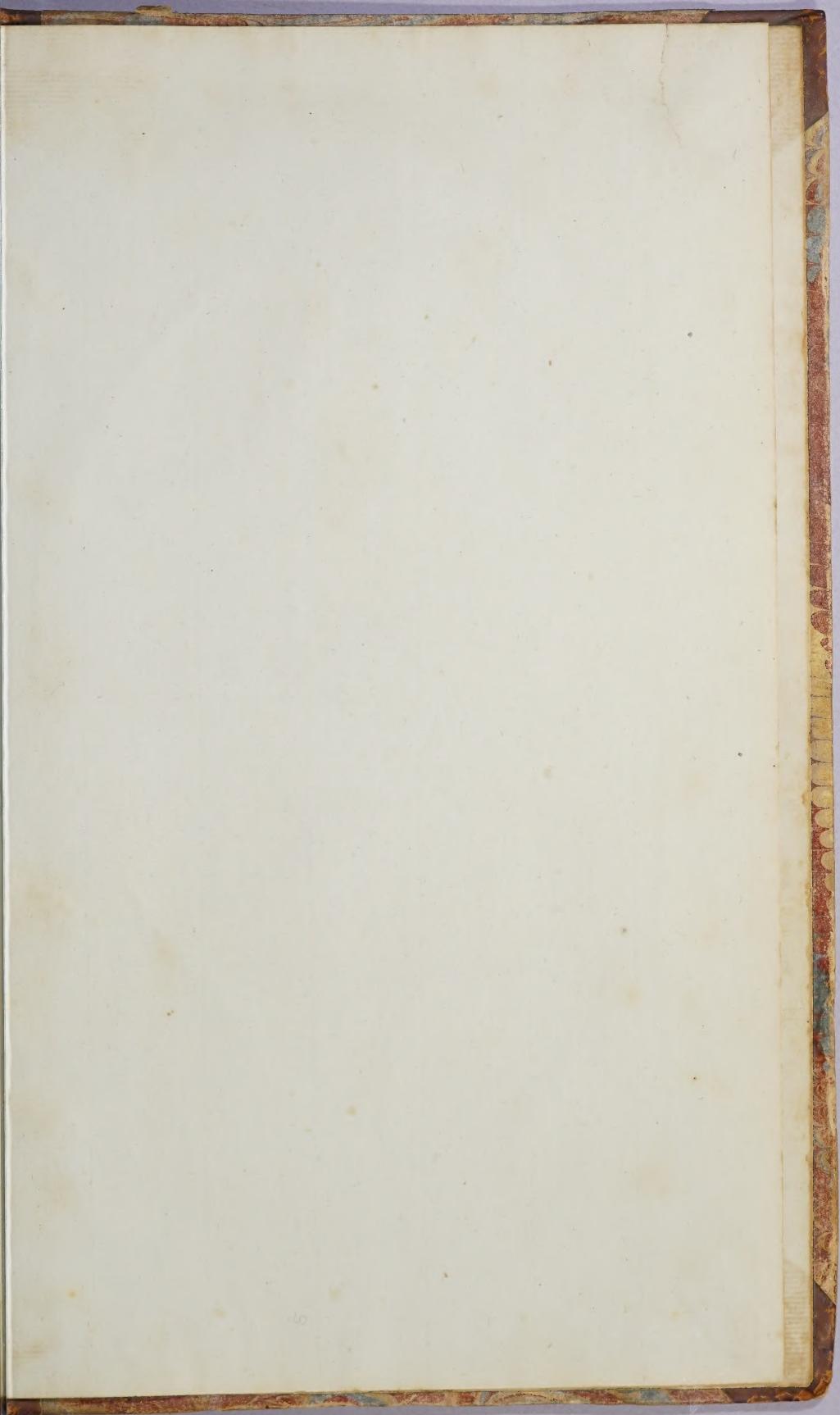
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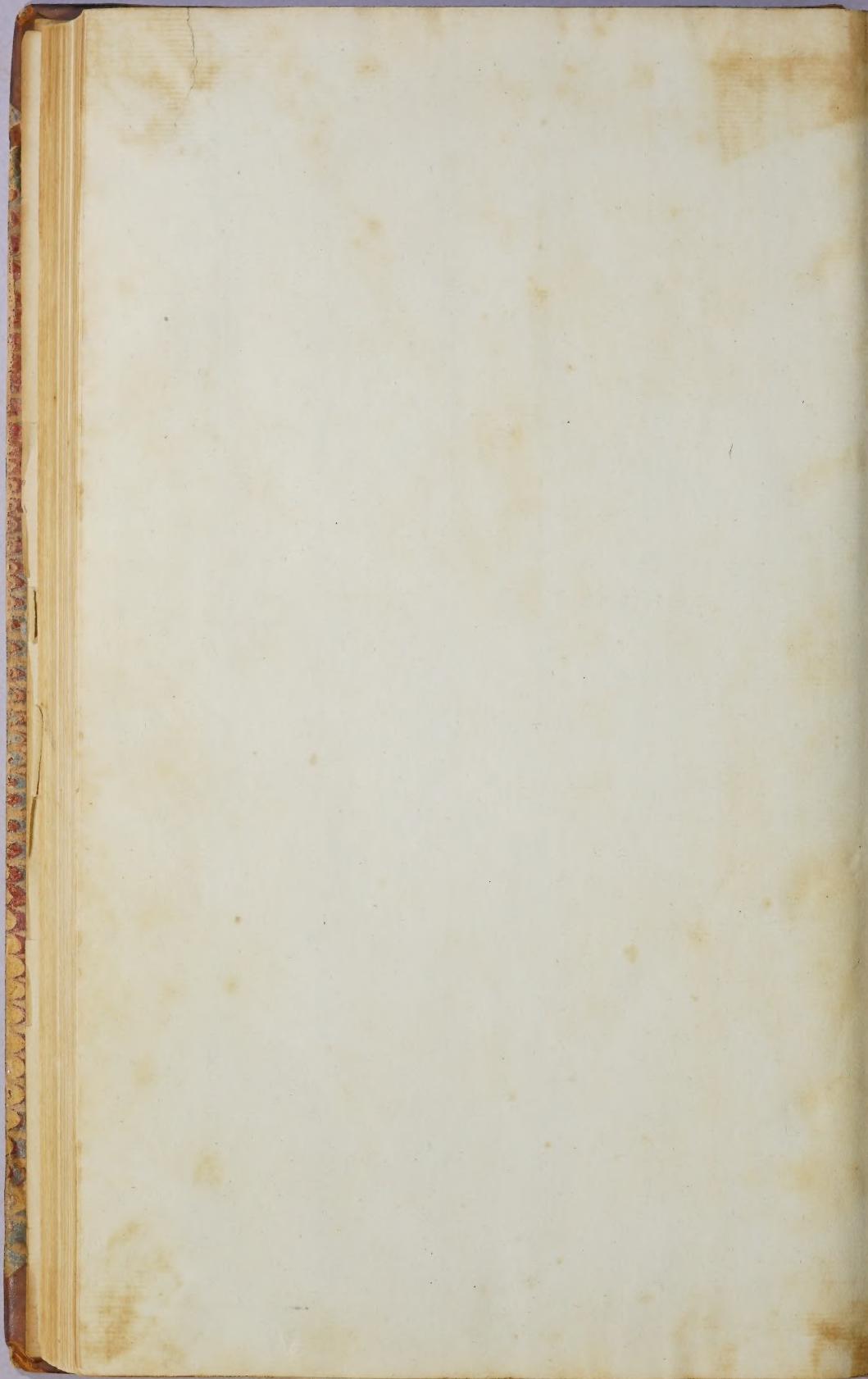
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